## The National ITS Architecture Module 2

## **Module Goals**

- To provide an overview of the National Architecture
- To discuss advantages of conforming to the National ITS Architecture

2 - 2

## **Module Outline**

- The National ITS Architecture
- Benefits of conformity

2 3

## **The National ITS Architecture**

- What is an Architecture?
- Vision
- Mission
- Example
- Interconnects
- What it is NOT
- What does the National ITS Architecture consist of?

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# What Is an Architecture? Identifies boundaries and participants Describes activities or functions Provides framework for planning, defining, and integrating your ITS

## National ITS Architecture: Vision

- Provide a framework for the definition of standards
- Provide the basis for integration among systems
- Ensure a high degree of flexibility in user choice

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## National ITS Architecture Provides Framework

- Description of activities or functions
- Options for you to consider for your regional and local ITS
- Set of tools to assist integration
- Information source for institutional linkages

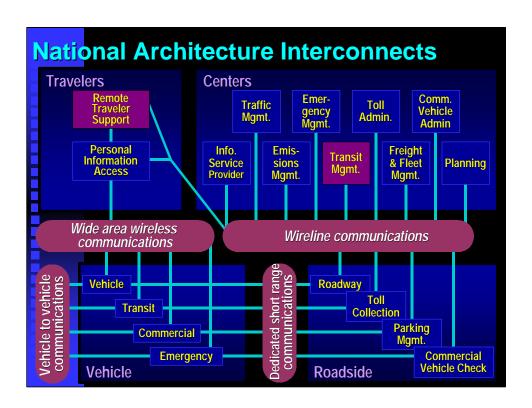




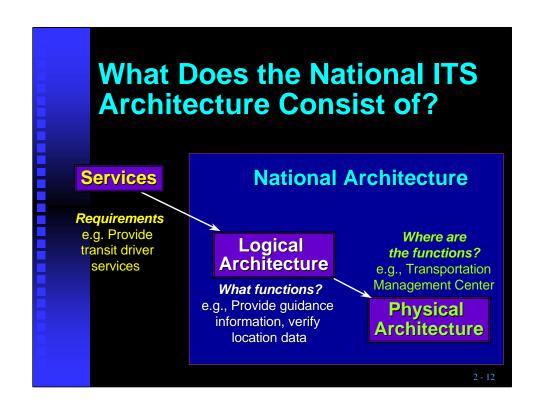
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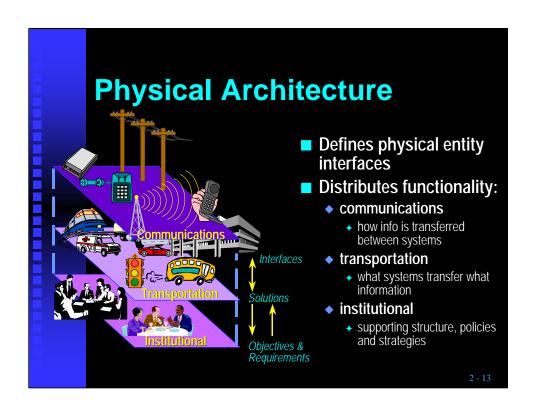
## National ITS Architecture: Mission Architecture is the framework of interconnected subsystems • provides ITS services by defining functions and interfaces Subsystem 1 • function A • function B Subsystem 2 • function C • function D

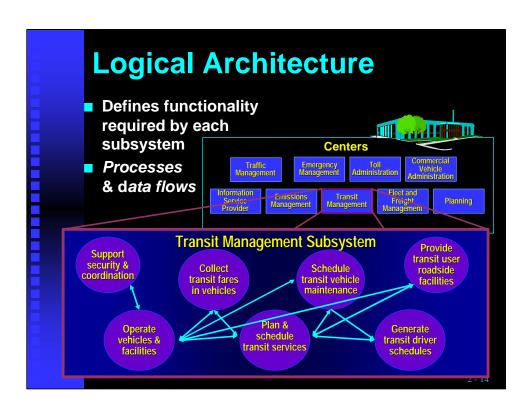
### National ITS Architecture: Example **Remote Traveler Transit Support** Management Transit information request provide trip planning provide transit user . services roadside data provide traveler provide transit user Transit fares and schedules roadside vehicle data services at kiosks · display map provide transit user information roadside fare info

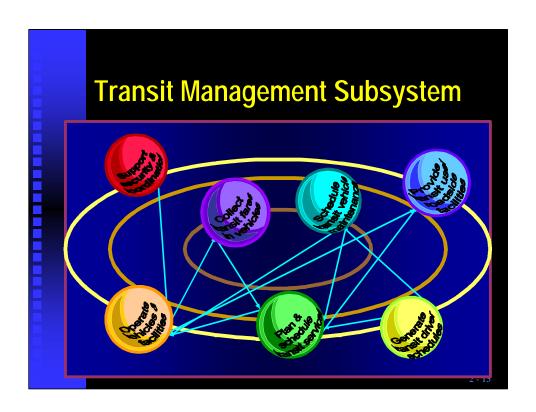


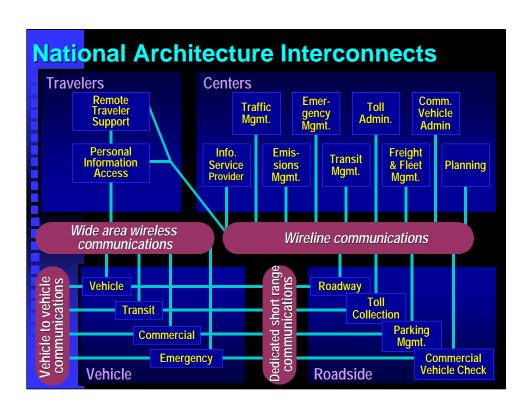
## **The National ITS Architecture:** What It Is NOT ■ A design document ■ Technology prescriptive An institutional or development process Design View **GPS** Flat Panel Nav Receiver Display Wireless **^udio CD ROM** Tranceiver System 2 - 11

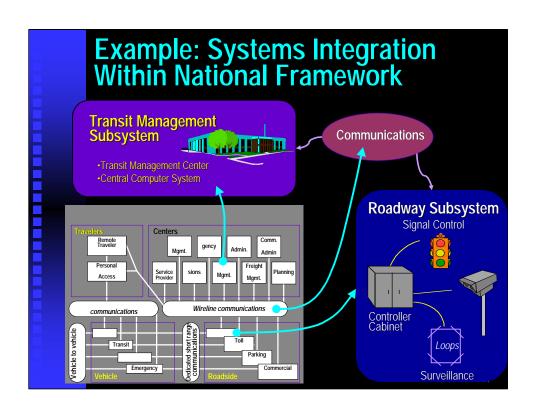












# Benefits of Using National ITS Architecture Saves money by expanding markets Reduces development time Increases operational efficiency Streamlines procurement Lower Lower Less Risk Integration

# Benefits of Using National ITS Architecture Ensures compatibility Enables future expansion Brings stakeholders together Allows information exchange Lower Cost ITS Less Risk

